Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

HW#17H: Midpoint

Honors Geometry

Due: Thursday October 1st

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| 1. How do you find the midpoint? Explain in your own words and provide an example. | |
| 2.  (a) Find the midpoint of A(6, 4) and B(-2, 4).  Label the midpoint M.    (b) What is the length of AB?  (c) What is the length of AM and MB? (Prove they are the same!) | 3.  (a) The midpoint of AC is *M*(3, 4). One endpoint is  *A*(l, 6). Find the coordinates of endpoint *C*.    (b) What is the length of AM?  (c) What is the length of AC? |
| 4.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-09-27 at 5.29.00 PM.png | 5.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-09-27 at 5.29.23 PM.png |
| 6.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-09-27 at 5.28.48 PM.png | 7.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2015-09-27 at 5.28.54 PM.png |
| 8. What do the tick marks on segments MP and MR in problem 4 mean? How does that help you solve form MR? | 9. Exmplain how you solved for MN in ptoblem 5. How is that different that how you solved problem 4? |